

IN THE CLAIMS

Please change the claims to read as shown below.

Change to:

1 - 27. (cancelled)

28. (new) An entity context apparatus, comprising:

a plurality of entity related systems and databases,

means for preparing data from said systems and databases for use in processing,

means for developing an entity context using at least a portion of said data,

means for context-based data and information storage, and

means for context distribution

where a context includes different aspects of context selected from the group consisting of element context, resource context, factor context, reference context, measure context, relationship context, transaction context, lexical context and combinations thereof.

29. (new) The apparatus of claim 28 that further comprises means for applying all or part of an entity context to support useful activities selected from the group consisting of completing actions, improving entity performance, managing entity performance, responding to events, supporting entity performance analyzing the impact of user specified changes on entity function measure performance, capturing entity related knowledge from one or more subject matter experts, collaborating with others to refine entity knowledge, customizing any combination of products, services and information for the entity, developing programs for entity related devices, developing programs for bots to support entity performance, developing new entity related software programs, developing an entity ontology, displaying knowledge about entity performance, educating users, managers and collaborators about the entity in an interactive manner, establishing priorities for entity actions and commitments, establishing expected performance levels for the entity, exchanging any combination of resources, elements, commitments, data and information with one or more other entities in an automated fashion, forecasting future values of entity related variables, identifying metrics and rules for monitoring entity performance, identifying changes that will optimize entity performance on one or more function measures, identifying the valid context space for entity analyses, identifying the data and information that is most relevant to the entity, identifying entity preferences, loading the data and information that is most relevant to the entity into a

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cache, optimize information technology support of entity performance, providing a true natural language interface for entity related software, quantifying risks to entity performance, quantifying the impact of surprises on entity performance, reviewing entity performance using user defined measures, regulatory measures and combinations thereof, searching for data in context, searching for information in context, searching for knowledge in context, simulating entity performance, underwriting entity related securities and combinations thereof.

30. (new) The apparatus of claim 28 where an entity is selected from a group of domains consisting of political, habitat, intangibles, interpersonal, market, organization, biology, cellular, organism, protein, chemistry, geology, physics, space, tangible goods, water, weather and combinations thereof.

31. (new) The apparatus of claim 28 where an entity is a separate entity, a combination of two or more entities or a multi-entity system.

32. (new) The apparatus of claim 28 where an entity is a member of one or more groups selected from the group consisting of voter, precinct, caucus, city, county, state/province, regional, national, multi-national, global, household, neighborhood, community, city, region, brand, expectations, ideas, ideology, knowledge, law, money, right, relationship, service, individual, nuclear family, extended family, clan, ethnic group, organization, multi-organization, industry, market, economy, team, group, department, division, company, organization species, genus, family, order, class, phylum, kingdom, macromolecular complexes, protein, ma, dna, x-ylation, organelles, cells, structures, organs, organic systems, organism, monomer, dimer, large oligomer, aggregate, particle, molecules, compounds, chemicals, catalysts, minerals, sediment, rock, landform, plate, continent, planet, quark, particle zoo, protons, neutrons, electrons, atoms, molecules, dark matter, asteroids, comets, planets, stars, solar system, galaxy, universe, compounds, minerals, components, subassemblies, assemblies, subsystems, goods, systems pond, lake, bay, sea, ocean, creek, stream, river, current, atmosphere, clouds, lightning, precipitation, storm, wind and combinations thereof.

33. (new) The apparatus of claim 28 where preparing data for use in processing further comprises converting data to a common schema and storing said data in accordance with said schema, converting data to a common ontology and storing said data in accordance with said ontology or a combination thereof.

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34. (new) The apparatus of claim 28 where data are aggregated from the group of consisting of organization systems, personal systems, bio medical systems, scientific systems, devices and combinations thereof.

35. (new) The apparatus of claim 28 that is supported by computer hardware from the group consisting of a computer, a cluster, a plurality of computers connected via a network, one or more virtual computers, one or more blade servers, a plurality of computers connected via a grid, a device and combinations thereof.

36. (new) The apparatus of claim 28 that further comprises support for context development, context storage and context distribution for a collection of entities or a population of entities.

37. (new) A computer readable medium having sequences of instructions stored therein, which when executed cause the processors in a plurality of computers that have been connected via a network to perform an entity context method, comprising:

aggregating data from a plurality of entity related systems,

developing one or more entity contexts using at least a portion of said data where an entity context includes one or more different aspects of context selected from the group consisting element context, resource context, factor context, reference context, measure context, relationship context, transaction context, lexical context and combinations thereof, and

using one or more entity contexts to support useful activities selected from the group consisting of completing actions, improving entity performance, managing entity performance, responding to events, supporting entity performance analyzing the impact of user specified changes on entity function measure performance, capturing entity related knowledge from one or more subject matter experts, collaborating with others to refine entity knowledge, customizing any combination of products, services and information for the entity, developing programs for entity related devices, developing programs for bots to support entity performance, developing new entity related software programs, developing an entity ontology, displaying knowledge about entity performance, educating users, managers and collaborators about the entity in an interactive manner, establishing priorities for entity actions and commitments, establishing expected performance levels for the entity, exchanging any combination of resources, elements, commitments, data and information with one or more other entities in an automated fashion, forecasting future

values of entity related variables, identifying metrics and rules for monitoring entity performance, identifying changes that will optimize entity performance on one or more function measures, identifying the valid context space for entity analyses, identifying the data and information that is most relevant to the entity, identifying entity preferences, loading the data and information that is most relevant to the entity into a cache, optimize information technology support of entity performance, providing a true natural language interface for entity related software, quantifying risks to entity performance, quantifying the impact of surprises on entity performance, reviewing entity performance using user defined measures, regulatory measures and combinations thereof, searching for data in context, searching for information in context, searching for knowledge in context, simulating entity performance, underwriting entity related securities and combinations thereof.

38. (new) The computer readable medium of claim 37 where each of one or more aspects of context are developed in an automated fashion by learning from the data.

39. (new) The computer readable medium of claim 37 where each of one or more entity contexts is defined by a relationship from the group consisting of being a context element having impact on one or more entities, being a context element having impact on one or more entity types, being a context element having impact on one or more events, being a context element having impact on one or more actions, being a context element having impact on one or more other elements, being a factor having impact on one or more entities, being a factor having impact on one or more entity types, being a factor having impact on one or more events, being a factor having impact on one or more actions, being a factor having impact on one or more other elements, measure impact, being a resource having impact on one or more entities, being a resource having impact on one or more entity types, being a resource having impact on one or more events, being a resource having impact on one or more actions, being a resource having impact on one or more elements, reference frame position and combinations thereof.

40. (new) The computer readable medium of claim 37 where an entity is a separate entity, a collaboration between two or more entities or a multi-entity system.

41. (new) The computer readable medium of claim 37 where an entity is a member of one or more groups selected from the group consisting of voter, precinct, caucus, city, county,

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state/province, regional, national, multi-national, global, household, neighborhood, community, city, region, brand, expectations, ideas, ideology, knowledge, law, money, right, relationship, service, individual, nuclear family, extended family, clan, ethnic group, organization, multi-organization, industry, market, economy, team, group, department, division, company, organization species, genus, family, order, class, phylum, kingdom, macromolecular complexes, protein, rna, dna, x-ylation, organelles, cells, structures, organs, organic systems, organism, monomer, dimer, large oligomer, aggregate, particle, molecules, compounds, chemicals, catalysts, minerals, sediment, rock, landform, plate, continent, planet, quark, particle zoo, protons, neutrons, electrons, atoms, molecules, dark matter, asteroids, comets, planets, stars, solar system, galaxy, universe, compounds, minerals, components, subassemblies, assemblies, subsystems, goods, systems pond, lake, bay, sea, ocean, creek, stream, river, current, atmosphere, clouds, lightning, precipitation, storm, wind and combinations thereof.

42. (new) The computer readable medium of claim 37 where one or more entity contexts are developed by a series of models selected from the group consisting of neural network; regression, generalized additive; support vector method, entropy minimization, generalized autoregressive conditional heteroskedasticity, wavelets, Markov, Viterbi, relevance vector method, Ornstein - Uhlenbeck, Bayesian, kriging, multivalent, multivariate adaptive regression splines, swarm, probabilistic - relational, power law, fractal, data envelopment analysis, path analysis and combinations thereof.

43. (new) The computer readable medium of claim 37 where each of one or more entity contexts includes attributes from the group consisting of the definition of one or more entity functions, the relative importance of the one or more entity functions, one or more entity function measures, the identity and description of current, past and future entity actions, the identity and description of elements that support the completion of entity actions, the identity and description of resources consumed during the completion of entity actions, the identity and description of environmental factors that affect the completion of entity actions, the interrelationship between elements, factors and resources, the relationship between elements, factors, resources, entity actions and entity function measure performance and combinations thereof.

44. (new) The computer readable medium of claim 37 where each of one or more entity contexts is developed in an automated fashion by learning from the data.

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45. (new) The computer readable medium of claim 37 where the method further comprises identifying a valid context space for each entity context.

46. (new) A search method comprising:

aggregating data from a plurality of entity related systems,  
develop one or more entity contexts for an individual entity and for a group of individual entities using at least a portion of said data,  
identifying a combination of data and information that is relevant to one or more layers of context for an entity selected from the group consisting of the individual entity, the group entity and combinations thereof using said entity contexts, and  
displaying the results in order of relevance

where an entity context further comprises a plurality of context layers selected from the group consisting an element context layer, a resource context layer, a factor context layer, a reference context layer, a measure context layer, a relationship context layer, a transaction context layer, a lexical context layer and combinations thereof.

47. (new) The method of claim 46 that further comprises:

completing a transaction in an automated fashion where a price for said transaction is a function of an entity context.

48. (new) The method of claim 46 wherein a measure context layer provides information that supports an identification of data and information relevance that is a function of its value to an entity.

49. (new) The method of claim 46 wherein each entity context layer of a plurality of context layers is developed in automated fashion by learning from the data.

50. (new) The method of claim 46 that has a context quotient of 200.

51. (new) A context distribution system, comprising:

a device with a processor having circuitry to execute instructions; a storage device available to each processor with sequences of instructions stored therein, which when executed cause the processor to:

aggregate data from a plurality of entity related systems,

develop one or more entity contexts using at least a portion of said data where an entity context includes one or more different aspects of context selected from the group consisting element context, resource context, factor context, reference context, measure context, relationship context, transaction context, lexical context and combinations thereof, and  
distribute one or more of the entity contexts in an automated fashion.

52. (new) The context distribution system of claim 51 that supports distribution methods selected from the group consisting of operating system layer propagation, device synchronization, device synchronization and replication, packet distribution, natural language interface and combinations thereof.

53. (new) The context distribution system of claim 51 that distributes one or more aspects of context in separate layers where said layers further comprise operating system layers, middleware layers or web service capabilities.

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